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# ENHANCED READINESS TEAM



## Environmental Information Management System

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# **Mitigation Measures Assessment Protocol (MMAP)**

- CD-ROM Media
- Interactive
- User Friendly



# Supporting the CNO's At-Sea Policy

- Routine Training and Exercises at Sea
  - Transits and Maneuvering
  - Safety and Engineering Drills
  - Replenishments
  - Flight Ops
  - Shipboard or Airborne Gunnery, Missile, or Torpedo Firings



# Supporting the CNO's At-Sea Policy

- Routine Training and Exercises At Sea
  - Conducted as Unit Operating Schedules Permit
  - Not Repeated in the Same Vicinity
  - Utilize Available Sensors and Assets within Normal Operating Parameters
  - Minor, Localized, and Transient Effects on the Environment
  - Do Not Cross the Action Thresholds



# MMAP Components

- NIMA Chart Grid
  - GIS Layers include
    - .Operational Ranges/Areas
    - .Marine Sanctuaries
    - .Coral Reefs
    - .Critical Habitats
    - .Foreign EEZ/Fishing Zones
    - .Migratory Paths for Protected Marine Species
- Mitigation Measures
- Risk Assessment Tool



# MMAP Timeline


- Operational Capabilities Requirements – May 02
- Draft Mitigation Measures Review – Jun 02
- Gold Disc Delivery – Dec 02
- Distribution to Fleet Operators – Feb 03
- Training???

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# Screen Shot

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## Mitigation Measures Assessment Protocol

Select the operation:

Select the regime:


Select the exercise:

Enter a date for this exercise:

Exercise Latitude:

Exercise Longitude:

NIMA Chart in use:



## Mitigation Measures Assessment Protocol

---

Select the operation:

Select the regime:

Select the exercise:   

(none)

Air to Air

Air to Surface

Air to Surface or Surface to Surface or Subsurface to Surface

Surface to Air

Surface to Surface


Enter a date for this exercise:

Exercise Latitude:

Exercise Longitude:

NIMA Chart in use:





## Mitigation Measures Assessment Protocol

Select the operation:

Select the regime:

Select the exercise:

.50 cal., 45 cal., 7.62mm, 5.56mm, 12ga., 40mm, 9mm, 25mm

(none)

.50 cal., 45 cal., 7.62mm, 5.56mm, 12ga., 40mm, 9mm, 25mm

20mm guns

5", 76mm, CIWS Guns

Description

Air drop of explosive bombs

Anchoring or anchor drop test

Full power active sonar training from surface combatants and submarines

NIMA Chart in use:

Help

Cancel


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## Mitigation Measures Assessment Protocol

---

Select the operation:

Select the regime:

Select the exercise:

Enter a date for this exercise:

Exercise Latitude:  
  
 Exercise Longitude:

April 2002						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

Today: 4/29/2002

NIMA Chart in use:

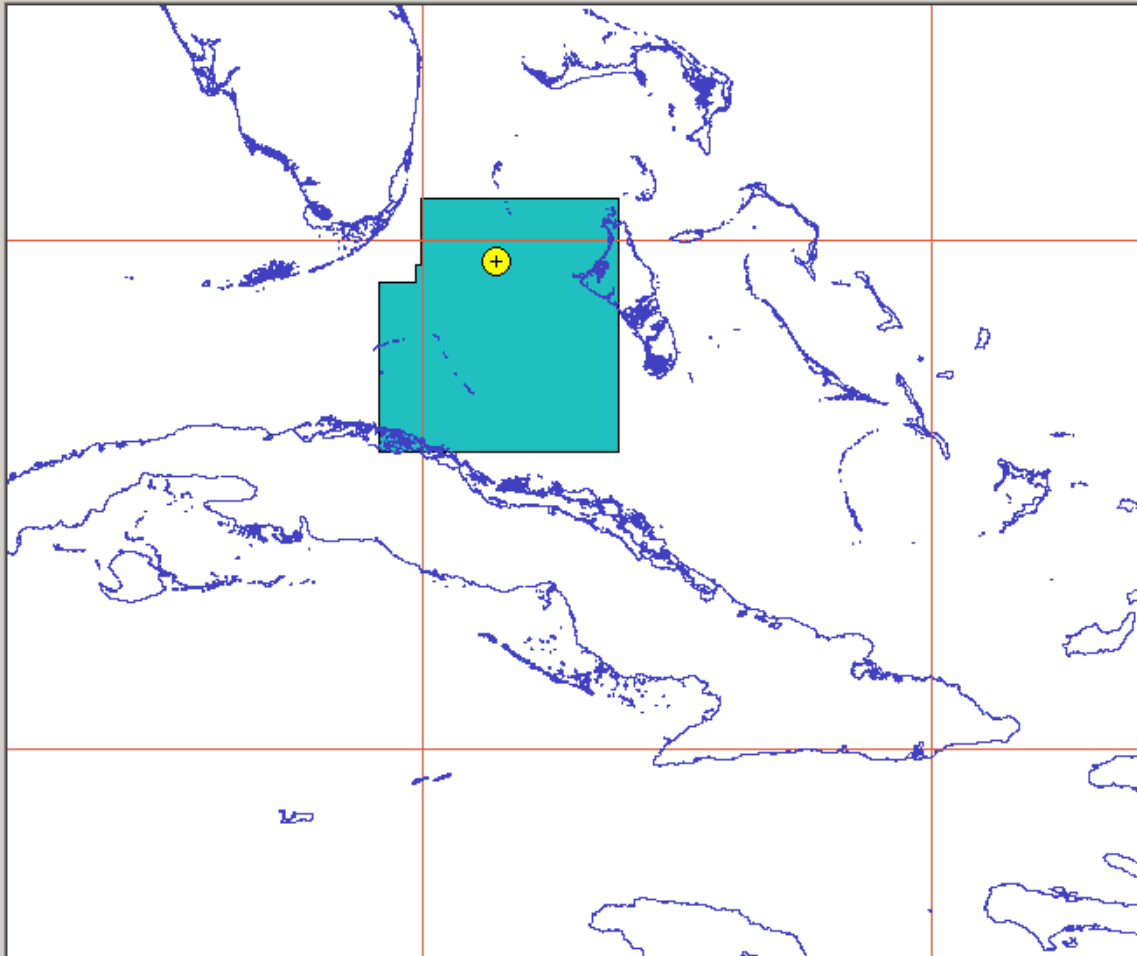
Help
Cancel
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Next >
Finish

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# Mitigation Measures Assessment Protocol

Please confirm the location of the exercise event and the navigation chart.



Help

Cancel

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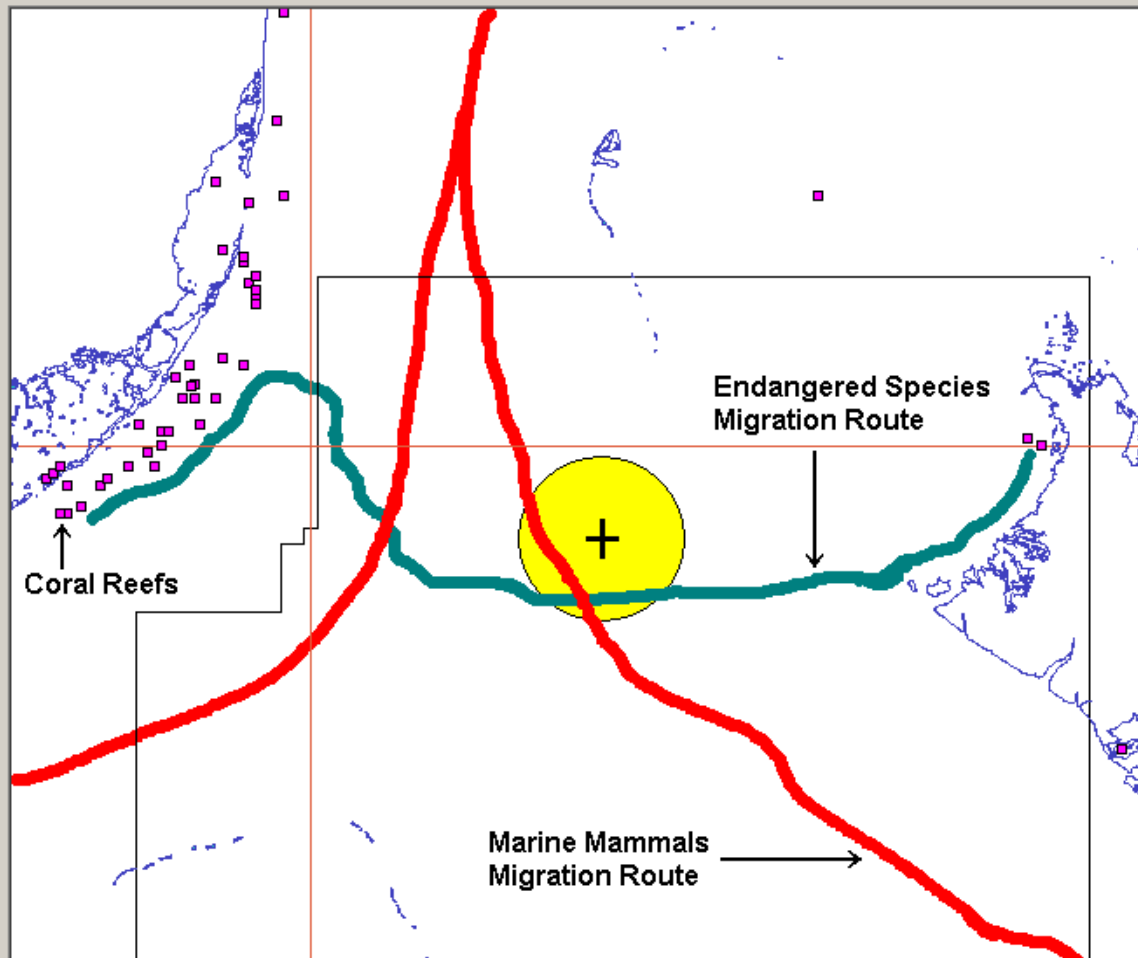
Finish

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## Mitigation Measures Assessment Protocol

Display of Environmental Information. Press the "Next" button for help with Mitigations and Operational Risk Management.

[Help](#)[Cancel](#)[< Back](#)[Next >](#)[Finish](#)





## Mitigation Measures Assessment Protocol

**Operation**  
5", 76mm, CIWS Guns

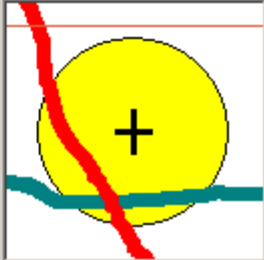
**Environmental Regime**  
Surface to Surface

**Description**  
5", 76mm, CIWS Guns (may be fired at drifting, towed, or remote controlled surface targets; air targets may be towed, programmed flight, or remotely controlled)

**Hazard**  
Marine Mammals  
Endangered and Threatened Species

**Causes**  
Projectile strike (inert)

HIGH SEAS



View RAC Matrix

Initial RAC  
**2**

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HIGH SEAS  
OPAREA/RANGE  
FOREIGN EEZ



Risk Assessment Codes					
Risk Matrix					
		Probability			
		A	B	C	D
Severity	I	1	1	2	3
	II	1	2	3	4
	III	2	3	4	5
	IV	3	4	5	5

**Risk Assessment Code**

1 = Critical  
2 = Serious  
3 = Moderate  
4 = Minor  
5 = Negligible



## Mitigation Measures Assessment Protocol

### All Areas Controls

Post trained lookout(s), if manned aircraft involved aircraft crew maintain visual watch. Conduct if no protected species (including marine mammals and listed or endangered species) are visible within 20 degrees of the firing bearing to +/- 2nm of range associated with intended target range of the firing bearing to maximum gun range.

### Habitat Controls

Do not conduct if the species for which the critical habitat was established are expected to be present. If that species is not expected to be present, use "all other areas."

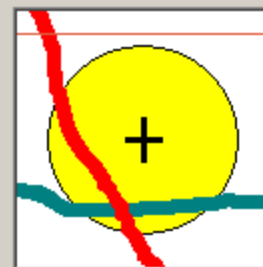
### Implementations:

- ☒ 1. CO reviews all Weapons Firing Training Packages.
- ☒ 2. OCE holds a briefing
- ☒ 3. Lookout training held
- ☒ 4. Leading QM runs EIMS program and posts outputs with OOD

### Supervisions

- ☒ 1. CICO checks with lookout
- ☒ 2. QMOW presents EIMS report to OOD
- ☒ 3. OOD checks with lookouts and CICWO
- ☒ 4. CO grants permission to conduct exercise

### HIGH SEAS



View RAC Matrix

### Residual RAC

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# EIMS Future Plans

- Start Major Exercise Use Case
- Land Based System
  - Database Access Via Internet
  - Environmental Planning Tool

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# Questions?

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